

Fig. S1.

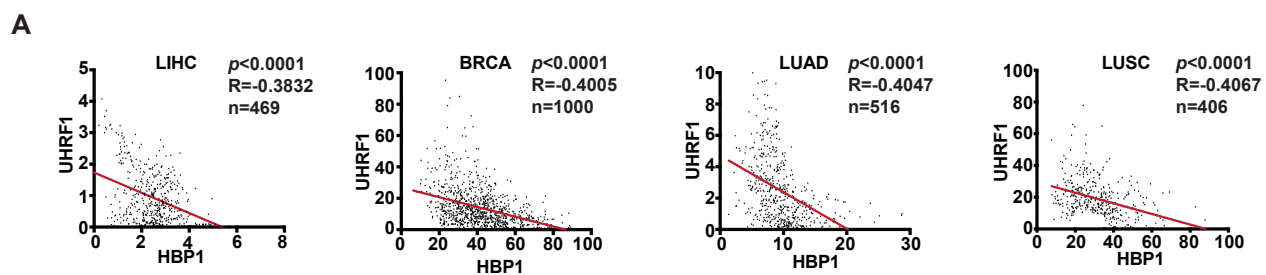


Fig. S1. HBP1 regulates UHRF1 expression. (A) HBP1 negatively correlated with UHRF1 mRNA levels in the TCGA cohort of liver, breast and lung cancers. The linear relationship was determined by a Pearson correlation analysis.

Fig. S2.

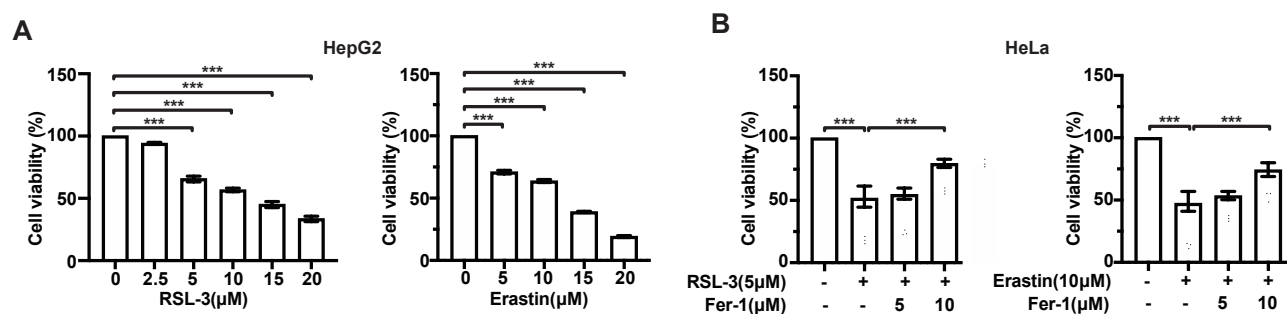


Fig. S2. HBP1 acts as an activator of ferroptosis in tumor cells. (A) Viability of HepG2 cells treated with different concentrations of Erastin or RSL-3. (B) HeLa cells were treated with Erastin or RSL3 in the absence or presence of ferrostatin-1 (5 μM or 10μM) for 24 h, and then cell viability was measured. Differences between two groups were calculated using a two-tailed Student's t-test. One-way ANOVA was performed to assess differences among multiple groups. Error bars represent S.D. *****, $p < 0.05$, ******, $p < 0.01$, *******, $p < 0.001$.

Fig. S3

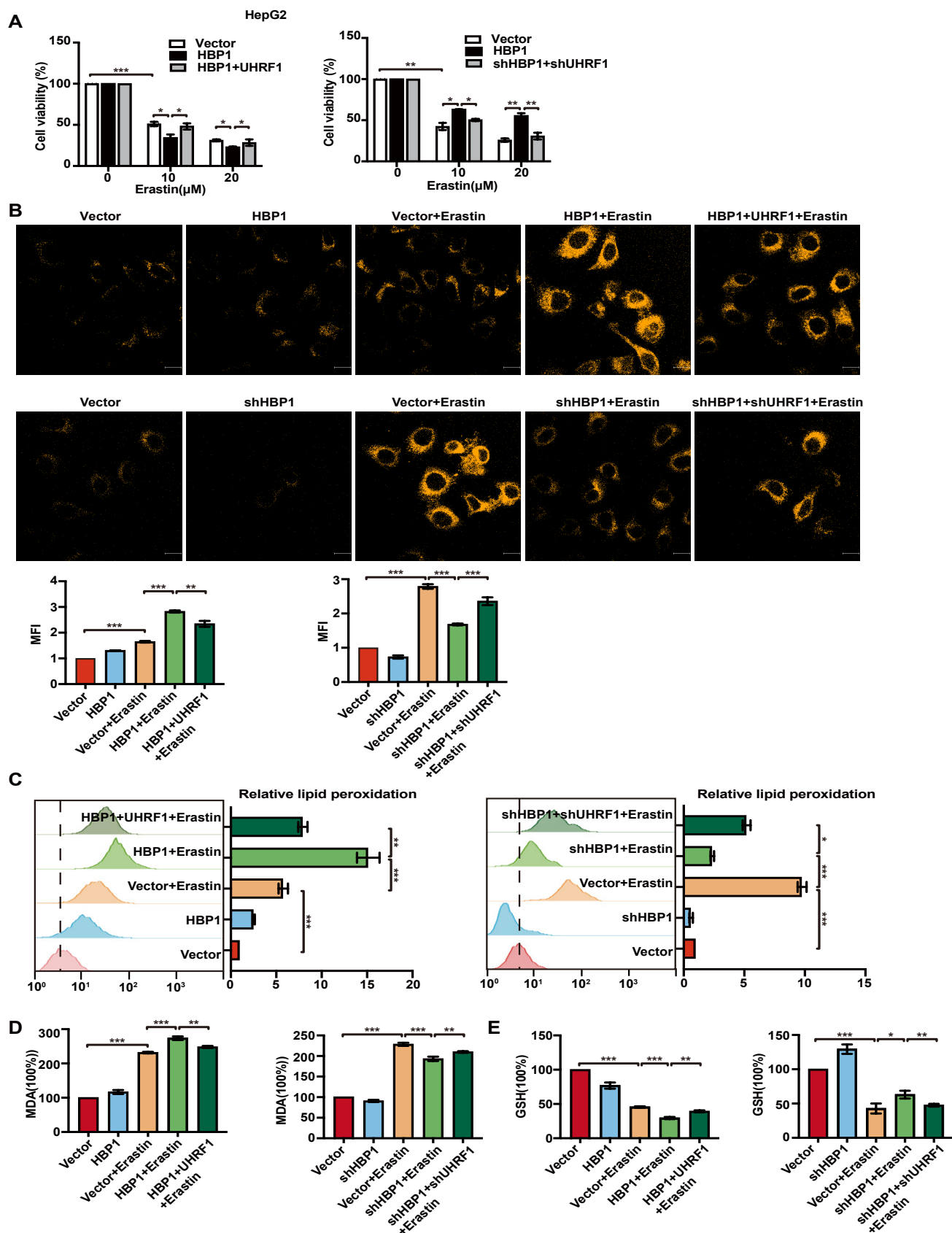


Fig. S3. The HBP1 promotes Erastin-induced ferroptosis by inhibiting UHRF1 in tumor cells. (A) Cell viability was conducted with HepG2 cells stably transfected with vector, HBP1, HBP1 + UHRF1 or vector, shHBP1, shHBP1 + shUHRF1. (B-E) Indicated cells were treated with or without 10 μ M Erastin for 24 h. Cells were collected, and confocal was used to detect Fe^{2+} levels and flow cytometry was used to detect lipid peroxides. Cells were lysed and GSH content and MDA content were measured. Scale bar =10 μ m. Differences between two groups were calculated using a two-tailed Student's t-test. One-way ANOVA was performed to assess differences among multiple groups. Error bars represent S.D. *, $p < 0.05$, **, $p < 0.01$, ***, $p < 0.001$.

Table S1. Primers used in the experiment

No.1 qPCR	Gene	Forward Primer 5'-3'	Reverse Primer 5'-3'
1	GAPDH	CCATGGAGAAGGCTGGGG	CAAAGTTGTCATGGATGACC
2	HBP1	TGAAGGCTGTGATAATGAGGA AGAT	CATAGAAAGGGTGGTCCAGCTTA
3	UHRF1	CCTGGCGTCACTCAAGGA	TCCTGACAGCAGATACACTGGA
4	CDO1	TCTCTGTTGGGGTGAAGGAC	GCCAGGCAAATAATGTCTCC
5	SLC7A11	TCTCCAAAGGAGGTTACCTGC	AGACTCCCCTCAGTAAAGTGAC
6	GPX4	TGGGAAATGCCATCAAGTG	GGGGCAGGTCCTTCTCTATC
7	SLC11A2	CTGCACCATGAGGAAGAAGC	TGGATACCTGAGTGGCTGAGT
8	SLC40A1	CCCCAGCTCTAGCTGTGAAA	CAGGGGTTTTGGCTCAGTAT
9	IREB1	CCTCAGCCCCTGTCAAAA	GATTACTGATGGCCACGTGTT
10	IREB2	CTGCCGAGGATCTTGTGATTC	GGGTGTATTCTCAATCTGCGAA
11	SLC39A14	AAGGCCCTACTCAACCACCT	CGACTGCTCGCTGAAATTGTG
12	ACSL4	GCTACTTGCCCTTGGCTCATGTG C	GTGTGGGCTTCAGTACAGTACAGTC TCC
No.2 CHIP	UHRF1	GTGCAGGTGGTCTCCTAGGG	CCCAGCGTGCAAAGGGGCT
No.3 MSP	CDO1	Methylation-specific primers Un-methylation-specific primers	TTTTTGGGACGTCGGAGATAAC CGAAAAAACCCCTACGAACACG GATTTTTGGGATGTTGGAGATAAT AAAACAAAAAACCCCTACAAACACA
No.4 shRNA	HBP1 UHRF1	5'-ACTGTGAGTGCCACTTCTC-3' 5'- TGGTCAATGAGTACGTCGATTT CAAGAGAATCGACGTACTCATT GACCTTTTTTC-3'	